

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION REPORT



DATE: September 26, 1994

From: Rose Ellison, OSC, Region V, RS1, Grosse Ile, MI

To:

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Subject: Petroleum Specialties, Inc., Flat Rock, Wayne County, MI

POLREP # 18 RV1

Site No.: NA

NPL Status: No

Start Date: May 6, 1994

Federal Project No. (FPN): 093022

Oil Spill Account No.: 43P805Q008

Response Authority: OPA

1. Situation:

RV1 is an OPA-funded removal action (see POLREP #1 for background and site assessment information). HREI is continuing tank work. HREI is continuing to treat and discharge water from tank #38. HREI has loaded and shipped 5 dump trucks of solidified oil to EQ's landfill in Canton Township, Michigan from September 19 to September 23, 1994. In addition, HREI has also shipped 4 approximately 6,000-gallon tankers of oil from tank #16 for recycling to US Steel and Victory Oil. Water samples were collected between the Vtech cells of the treatment system daily and sent to Shrader Labs for BTEX analysis.

2. Actions Taken:

September 19, 1994: Water treatment being conducted during the day only. HREI treated and discharged 53,100 gallons of water from tank #38. HREI continued excavation and solidification of oil-contaminated soils from the dike areas of tanks #49 and 50. Some piping was removed from these dike areas to allow better access to the oil-contaminated soils. Approximately 200 tons of clay was mobilized to the site and

used to backfill the excavated areas around tanks #32, 49, and 50. HREI continued removing oil and liquids from the on-site pipes including the hot loop oil line to tanks #32 and 41 and the pipe between tanks #30 and 32. HREI covered the hole cut in tank #37 with plywood and transferred the liquids from the UST (tank #81) to the pipe frac tank (frac #2). The oil in the frac tank at tank #16 was heated and circulated up to 160oF, and a demulsifier agent was added to the oil to remove the emulsion. The sludge was removed from the clarifier and solidified along with solids and rinsate from the K & D vac truck used on 9/15 and 9/16 to remove tank #37 materials.

September 20, 1994: HREI continued to treat water during the day. Approximately 19,900 gallons of water from tank #38 were treated and discharged. The treatment system separator, clarifier, and settling pool were cleaned, and approximately 2,400 gallons of rinsate and oil were removed for solidification. HREI removed additional piping from the dike areas of tanks 49 and 50 and continued excavating oil-contaminated soils and backfilling the excavated areas with 300 tons of clay, which were mobilized to the site. The vacuum truck was used to evacuate the liquids from the loading pipes to tanks #30 and 41 along with the oil and water from the settling pool of the treatment system. These liquids were solidified in a separate roll-off box, and a sample was collected of the solidified material and sent to BEC for 24-hour PCB analysis. HREI also pumped and solidified approximately 2,000 gallons of liquids from tank #9. K & D transported one dump truck with 24 cubic yards of solidified oil/liquids from the treatment system and pipes to EQ's landfill (manifest #52). HREI loaded two tankers with oil from the tank #16 frac tank. One tanker departed to transport approximately 6,309 gallons of oil to US Steel, Gary, Indiana (manifest #53). HREI also collected a sample of the pipe frac tank and sent it to BEC for 72-hour solvent scan.

September 21, 1994: HREI continued treatment and discharge of water from tank #38. Approximately 47,700 gallons of water was treated and discharged. HREI refilled the pipe frac tank with oil from tank #16, heated, circulated, and added the demulsification agent to the oil. The vacuum truck continued to be used to vacate oils and liquids from the piping on-site. This material in addition to oils removed from oil overflow of the water treatment were solidified with kiln dust. HREI dewatered the excavated areas of the dike of tank #32. Approximately 300 cubic yards of clay were received and used to back fill the excavated soil areas from around tanks #32, 49, and 50.

September 22, 1994: HREI continued to treat and discharge water from tank #38 during the day. Approximately 45,500 gallons of water were treated and discharged. HREI continued excavating oil-contaminated soils from the east edge of the dike area of tanks #49 and 50 in pipe area. Approximately 405 cubic yards of clay were mobilized to the site and used to backfill the excavated areas around tanks #32, 49, and 50. Some piping was vacated of liquids and removed from the dike area of tank #32. HREI loaded and sent one load of 5,400 gallons of oil from the tank #16 frac tank to US Steel, Gary, Indiana (manifest #54). Approximately 2,000 gallons of liquid/sludge was removed from tank #9 and solidified in the roll-off boxes. Material solidified yesterday

from the piping and water treatment system and from tank #9 was shipped by K & D in 3 dump truck loads with 24 cubic yards each to EQ's landfill, Canton Township, Michigan (manifests #55, 56, and 57). HREI sampled the oil from a leaking pipe near tank #41 and sent it to BEC labs for 24-hour PCB analysis.

September 23, 1994: HREI continued to treat and discharge water from tank #38 during the day. Approximately 19,900 gallons of water were treated and discharged. HREI completed excavating and backfilling the areas of oil-contaminated soils around tanks #49 and 50 and continued excavating oil-contaminated soils from around tank #30. Approximately 450 cubic yards of clay was mobilized to the site to backfill these three dike areas. HREI loaded and sent two loads of oil (5,500 gallons and 6,492 gallons) from the frac tank at tank #16 to Boswell Oil/Victory Oil, Cincinnati, Ohio (loads #58 and 60). The remaining water and material in the frac tank was pumped to roll-off boxes and solidified. K & D transported one dump truck load with 24 cubic yards to EQ's landfill (manifest #59). HREI continued evacuating lines with the vacuum truck. HREI refilled the frac tank at tank #16 with more oil from tank #16 and began heating and circulating the oil. HREI received the results of the solvent analytical from the pipe frac tank, which showed some high levels of xylenes in the material. PCB results from the liquids from the piping near tank #41 showed low levels (< 2 ppm) of PCBs.

September 24, 1994: HREI heated, circulated, and added the demulsifying agent to the oil in frac tank at tank #16, which was transferred from tank #16.

3. Next Steps:

- A. HREI to complete treating and discharging water from tank #38 on 10/17. HREI treating tank #38 water exclusively. HREI may occasionally mix dike and tank #38 water which may extend completion date of water treatment from the tank. Mixing dike water with tank #38 water will however allow drying of oil-contaminated soil areas for soil excavation as well as reducing the hydrogen sulfide generation from the tank #38 water.
- B. HREI to continue loading out tankers with oil from tank #16 after first transferring it to frac tank for heating, circulating, and demulsifying with chemical from Midwest Custom Chemical. HREI to send out two tankers on 9/26 and begin refilling frac tank at tank #16 the same day. There is approximately 135,000 gallons of oil in tank #16. Tank #16 expected to be completed by 10/17. Other tanks with materials to be removed include tanks #9, 10, 24, 26, 38, and 41. Tank #30 also will be cleaned.
- C. HREI to continue pipe liquid removal, soil excavation, and backfilling excavated areas with clay. HREI to continue soil excavation from tank #30 on 9/26 and will begin soil excavation from tanks #31 and the large dike area of tanks #22 to 29. A trackhoe with shears and set of grapplers for existing trackhoe will be mobilized on 9/26 to cut and remove the piping from around tanks #31 and 22 to 29. Following the

removal of this piping the oil-contaminated soil in these areas will be excavated, solidified, and staged.

4. Key Issues:

- A. The demulsifying agent supplied by Midwest Custom Chemical was tested in the oil that was sent out last week. Based on the low results of % solids and % water analysis run by the recycling facility, the demulsifying agent is working and will continue to be used. American Energy Products, however, has been unable to supply the site with enough tanker trucks to continue load out of oil from tank #16 as needed by the site. Based on this inability, the oil is being hauled by Refiners Transport, Inc. to various oil facilities in Ohio and Indiana with brokerage from Victory Oil, Lincoln, Nebraska.

5. Status:

- A. Case open.

- B. Estimated costs as of September 22, 1994:

	Budgeted	Spent	Remaining
BOA	\$1,600,000	\$1,155,334	\$444,666
TAT	\$ 200,000	\$ 48,739	\$151,261
U.S. EPA Direct	\$ 130,000	\$ 22,045	\$107,955
U.S.C.G.	\$ 70,000	\$ 43,149	\$ 26,851
TOTAL:	\$ 2,000,000	\$1,269,267	\$730,733